Storage

Ultra-fast hard disk drives for today's performance-driven systems and applications

3.5-Inch, 15K RPM

Enterprise Hard Disk Drives

MBA3073 • MBA3147 • MBA3300

State-of-the-art hard disk drives for demanding enterprise applications.

- 15K RPM spindle speed and storage capacities up to 300GB[1]
- Maximum internal data-transfer rate of 179MB/sec
- 3Gb/sec SAS interface. Also offered with 4Gb/sec Fibre Channel and Ultra320 SCSI interfaces
- 1.4M hours MTBF for high reliability
- Ideal for high-performance and high-bandwidth applications



[1] One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.

One megabyte (MB) = 1,000 bytes
One gigabyte (GB) = 1,000 megabytes
Gigabit (Gb) = 1,000 megabits
RPM = Revolutions Per Minute

FUJITSU

THE POSSIBILITIES ARE INFINITE

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Over 40 years ago, Fujitsu was manufacturing 14-inch hard disk drives for mainframes. Today we're shipping some of the fastest enterprise 3.5-inch hard disk drives in the industry. Leveraging our technology expertise and heritage, we deliver reliable, high-capacity HDDs for your customer's most demanding storage applications.

Fujitsu 3.5-inch 15K RPM enterprise hard disk drives feature a host of innovations. The 300GB, 4-platter configuration provides low power consumption, high reliability, and faster internal data rates. Interface options include 3Gb/sec SAS, 68/80-pin U320 SCSI and 4Gb/sec Fibre Channel.

These qualities make Fujitsu hard disk drives ideal for today's most demanding storage environments. A variety of product offerings with industry leading performance provide systems engineers with greater flexibility when designing rack and tower servers, storage arrays, RAID systems and digital video systems.

About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a subsidiary of Fujitsu Limited, a leading provider of customer-focused IT and communications solutions for the global marketplace. FCPA provides innovative solutions for the U.S. marketplace. Current product and service offerings include high-performance hard disk drives, scanners and scanner maintenance, palm vein recognition technology, 10Gb Ethernet switches and degaussers.

3.5-Inch, 15K RPM Enterprise Hard Disk Drive Specifications

Description			MBA3073RC/NC/NP/FD	MBA3147RC/NC/NP/FD	MBA3300RC/NC/NP/FD
Functional Specifications					
Storage capacity (formatted)[1]			73.5 GB	147.0 GB	300.0 GB
Disks			1	2	4
Heads (read/write)			2	4	8
Bytes/sector			512		
Seek time	Track to track		Read: 0.2 ms (typ.) / Write: 0.4 ms (typ.)		
	Average		Read: 3.4 ms (typ) / Write: 3.9 ms (typ)		
	Full track		Read: 8.0 ms (typ) / Write: 9.0 ms (typ)		
Average latency time			2.00 ms		
Rotational speed (RPM)			15,000		
Areal density			112.8 Gbits/sq. in.		
Data transfer rate	To/from media		179MB/sec		
	To/from host		SAS: 3Gb/sec, SCSI: 320MB/sec, FCAL: 4Gb/sec		
Recording code			60/62 MEEPRML		
Interface			Dual Port SAS (RC Series), SCA-2 80Pin (NC Series), 68Pin Wide (NP Series), Dual Port FCAL (FC series)		
Head positioning method			Rotary VCM		
Start time			30 s (typ)		
Stop time			30 s (typ)		
Buffer size	SCSI		8 MB		
	SAS, FC		16 MB		
Physical Specifications					
Power requirements	Voltage		5 V ± 5%, 12 V ± 5%		
	Spin-up		12 V ± 5% @ 2.5 A (peak) 3.0 A (peak < 100 us) 5 V ± 5% @ 0.8 A		
	Idle (typ.)	SAS	12.8 W		
		SCSI	12.4 W		
		FC	13.4 W		
Dimensions (HxWxD)			25.4 mm x 101.6 mm x 146.0 mm		
Weight			800 g		
Ambient temperature	Operating		5°C to 55°C (HDD surface 60°C max)		
	Non-operating		-40°C to 70°C		
	Gradient		20°C/Hour (max)		
Relative humidity	Operating		5% to 95% (non-condensing)		
	Non-operating		5% to 95% (non-condensing)		
	Max. wet bulb		29°C (operating)		
Vibration	Operating		0.6 mm (5 to 20 Hz) / 1.0 G (20 to 300 Hz)		
	Non-operating		3.1 mm (5 to 20 Hz) / 5.0 G (20 to 300 Hz)		
Shock	Operating		65 G max. (2 ms)		
	Non-operating		250 G max. (2 ms)		
Altitude (operation)	Operating		3,048 m (max.)		
	Non-operating		12,192 m (max.)		
Acoustic Noise (idle sound power) (typ.)			</= 3.6 bels (idle)		
Reliability Specifications					
Mean time between failures (MTBF)			1,400,000 hours		
Error rates	Unrecoverable errors		1 per 10^{15} bits read		
	Seek errors		10 per 10^{8} seeks		
Limited Warranty			5 years (from date of purchase)		

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